

AP17 Rec'd PCT/PTO 28 APR 2006

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-8 (Cancel)

9. (New) An encryption recording apparatus comprising:
- an input unit to which encoded data formed by an encoding block including at least an intraframe encoded image is input;
 - an encryption processing unit that encrypts the encoded data while changing an encryption key for at least one encryption block, and generates management information including key application information indicating number of encryption keys used in encrypting the encoded data and application range information indicating an application range for each of the encryption keys; and
 - a recording unit that records the encrypted encoded-data and the management information on a recording medium, wherein
- the encryption processing unit encrypts, when encryption key change timing is in a middle of encryption of the intraframe encoded image, at least one intraframe encoded image with a single encryption key to prevent the encryption key from being changed in the middle of the encryption of the one intraframe encoded image, and
 - the application range information includes key information indicating the encryption key, a key application start number indicating a start position of the encryption block where the key information is used, and number of the encryption keys used.
10. (New) The encryption recording apparatus according to claim 9, wherein the encryption key is used as a decryption key when decrypting the encrypted encoded-data.

11. (New) The encryption recording apparatus according to claim 9, wherein the encryption processing unit delays, when encryption key change timing is in the middle of the encryption of the intraframe encoded image, the encryption key change timing to prevent the encryption key from being changed in the middle of the encryption of the intraframe encoded image.
12. (New) The encryption recording apparatus according to claim 11, wherein the input unit includes a data identifying unit that detects the intraframe encoded image from the input encoded data, and changes a state of an identification flag based on detection of the intraframe encoded image, and the encryption processing unit determines whether to delay the encryption key change timing, based on the state of the identification flag.
13. (New) The encryption recording apparatus according to claim 12, wherein the data identifying unit sets the identification flag in a state of disabling a change of the encryption key in a period from detection of a head of the intraframe encoded image to detection a head of an encoded image different from the intraframe encoded image.
14. (New) The encryption recording apparatus according to claim 9, wherein the input unit inserts, when the encryption key change timing is in a middle of encryption of the encoding block, dummy information right before the encoding block to prevent the encryption key from being changed in the middle of the encryption of the encoding block.
15. (New) An encryption recording method comprising:
encryption processing including
encrypting encoded data formed by an encoding block including at least an intraframe encoded image while changing an encryption key for at least one encryption block; and

generating management information including key application information indicating number of encryption keys used in encrypting the encoded data and application range information indicating an application range for each of the encryption keys; and

recording the encrypted encoded-data and the management information on a recording medium, wherein

the encrypting includes encrypting, when encryption key change timing is in a middle of encryption of the intraframe encoded image, at least one intraframe encoded image with a single encryption key to prevent the encryption key from being changed in the middle of the encryption of the one intraframe encoded image, and

the application range information includes key information indicating the encryption key, a key application start number indicating a start position of the encryption block where the key information is used, and number of the encryption keys used.

16. (New) The encryption recording method according to claim 15, wherein the encrypting includes delaying, when encryption key change timing is in the middle of the encryption of the intraframe encoded image, the encryption key change timing to prevent the encryption key from being changed in the middle of the encryption of the intraframe encoded image.

17. (New) The encryption recording method according to claim 15, further comprising:

inserting, when the encryption key change timing is in a middle of encryption of the encoding block, dummy information right before the encoding block to prevent the encryption key from being changed in the middle of the encryption of the encoding block.